30 April 1974

STATINTL MEMORANDUM FOR: | OC=EXA

: COMCON Phase I Project Proposal

: Memo, Subject: OC Map Support REFERENCE

dated 28 February 1974,

From Paragraph la. STATINTL

I. INTRODUCTION

SUBJECT

As stipulated in the Feasibility Study for this project, dated 8 November 73, the requirements for an Office of Communications (OC)/Management Assistance Program (MAP) Personnel Control and Reporting System were in large part the requirements of the PERSIGN/STAFFING applications, which encompasses all Agency-affiliated employees. PERSIGN and STAFFING are only the foundation of a concept known as the Manpower Control System (MCS) which is to be a one man/one record approach to Agency-wide personnel information requirements. Eventually, the MCS will contain information on cover, fitness reports, the employee locator, medical assignability, passports and other agency credentials, employee training records and qualifications, insurance, hospitalization, personnel assignment, and the Agency's Table of Organization. This project, COMCON, should be inexorably linked to the development of the MCS and should assume the same phasing scheme, activating new segments of information as MCS projects are implemented. The establishment of supplemental OC data files linking to various files within the MCS will provide the Office of Communications (or any other office for that matter) with a workable Personnel Assignment and Control system. This proposal only addresses itself to the first phase of COMCON, which will be interfacing with the first phase of PERSIGN and STAFFING, and does not attempt to provide an interim solution for those OC requirements which will be fulfilled in subsequent phases of the MCS development.

DESIGN CONSIDERATIONS II.

The COMCON project will necessarily impact on the PERSIGN/STAFFING project in all phases, and have an effect in the long run over specific projects within the Manpower Control System in accessing OC related data items from these systems. In order to minimize duplication of data and to maximize the effective use of data interplay among all projects within MCS, the design of COMCON should be in concordance with the capabilities existing within MCS. Therefore, the COMCON project should be evaluated in the areas of resource availabilities and data base considerations. For the resource category these are: (1) CPU utilization; (2) storage requirements; and (3) processing Algorithms. The considerations to be taken into account for the PERSIGN/STAFFING data base are: (1) overall data integrity; (2) user convenience and security; (3) flexibility and generality; (4) strict lock-out procedures in order to inhibit OC from retrieving data items of other offices in the data base; and (5) security controls to prevent OC from updating any PERSIGN record.

A. RESOURCE AVAILABILITIES

1. CPU Utilization

It is estimated that the COMCON Project will require 2.5% of the total available CPU time of GIM-II for maintaining its portion of the data base. This estimate is based on the projection of data input by O/C to be approximately 40 transactions per week - along with the method by which the COMCON data lists retrieve personnel data from PERSIGN/STAFFING files. The bulk of all O/C system interaction is in retrieval of this data. The number of on-line terminals is set at two(2): one located at HQ (2D00) and another at Magazine Bldg. (O/C Admin. section). This level of user activity and CPU utilization will not degrade any other GIM-II application/Projects.

2. Storage Requirements

Since COMCON derives approximately 75% of its information from PERSIGN/STAFFING via the GIM facility of file I/O (i.e. spans) the actual number of GIM records exclusive to its own use is in the neighborhood of 2 to 3 million bytes of storage space.

3. Processing Algorithms

All COMCON requirements can be satisfied using the existing GIM-II software facilities. Editing of input data is at a minimum, since the philosophy of this system is one of data gathering from PERSIGN/STAFFING.

Most edits, however, will be done at the dictionary level, thereby avoiding user contention when GIMS procedures are used.

B. DATA BASE CONSIDERATIONS

1. Data Integrity

The COMCON project will guarantee data base integrity by: (1) using the Social Security Number (SSN) as the method of identifying a specific and unique item (record) within the data base; (2) edit and validation of data input via procedures, specifically at the dictionary level; (3) allowing no possible means for updating the PERSIGN/STAFFING files.

2. Data Security

Data Base Security will be maintained by limited access of O/C users to the overall PERSIGN/STAFFING files, allowing OC only the facility for data retrieval of records of O/C personnel, or of individuals occupying OC positions from outside organizations. OC can update data only within its own peculiar file organization, i.e. only data which it itself is maintaining. A unique naming scheme will be adopted for PERSIGN/STAFFING data lists thereby preventing retrieval of non-O/C data.

3. User Interface

The PERSIGN/STAFFING project in Phase I will provide approximately 75% of the data attributes necessary for OC for its system and associated reporting mechanism. The data base will be on-line during normal working hours (0800 to 1700) and available for batch processing during the evening (1700 to 2400). During the day it is encouraged that on-line updates be kept at a minimum. Extracts for reports will be coordinated with the Data Access Center/OJCS. This will insure satisfactory response time under normal situations.

4. User Security

In order to ensure protection of the data files, the Data Access Center/OJCS (DAC) will provide support

and backup facilities whenever the system crashes (restore, reprocess), or a deadlock situation occurs (e.g. channel I/O contention). Priorities will be assigned to user-directed queries/updates depending on the system effects that would be engendered by these statements. System security routines are an inherent feature of the GIM-II DMS architecture, thus ensuring controlled user access.

5. Flexibility and Generality

The Phase I design of COMCON will allow for the future association of the personnel-oriented data files with other systems/projects when and if projects are interfaced in the last stages of the Manpower Control System (MCS). Projects such as CENBAD - from which passport information is a requirement, CENCO - cover and a history of cover, MEDSIGN - medical (physical dates, innoculations confirmed) information, TRAINING - an individuals training profile are all either planned or anticipated projects to be incorporated into the entire MAP effort. The COMCON application must be allowed the flexibility of future interface with the aforestated projects.

III. PROJECT DESIGN

COMCON will be a GIM-II application with file linkages to the PERSIGN/STAFFING data lists: PERSIGN1, PERSIGN2, POSNR, ORGCODE, and MAINID. The linkage to MAINID will serve for verification of data and the file will serve as a history repository. The other file linkages are for record retrieval of data pertaining only to OC. The data lists exclusive to OC will comprise three in number. A station index file containing associated information about that station, an overseas index file showing personnel assigned or planned to be assigned to an overseas installation (or vic versa, from an overseas installation to another installation, regardless of the new location); a main OC personnel file containing the linkages (spans) to the PERSIGN/STAFFING files, along with peculiar OC data attributes (see attachment 1). These data lists will be interrelated in order to form the manning system required by OC in Phase I.

After completion of a GIM-II user's training course O/C users will have a knowledge of the tools available to them for accessing and updating their files.

Hard-copy reports will be produced using the Basic Automatic Report Formatter (BARF), for those categories of reports which can be produced in Phase I. Attachment 2 delineates the reports required by OC stating which can be produced in Phase I. The reports will be produced using computer batch facilities.

PROJECT DELIVERABLES IV.

The deliverables from the COMCON application include:

- 1. A GIM-II data base oriented towards personnel assignment and control.
- 2. The quantitative aspects as outlined in section III.
- 3. User training in GIM-II necessary for interaction with the system.
- 4. Terminal installation at Headquarters (2D00) and at Magazine.
- 5. Adequate documentation of the system, so that the user can exercise the proper managerial and operational controls of his data base.

The responsibility for management and coordination during the development phase falls upon a data base manager usually the Project Leader who is designated by the Computer Branch involved in the development. The coordination between the user's office and the programmer(s)/analyst(s) doing the actual coding is the responsibility of a liason person, appointed by OC, serving as an "Information Management Officer". Upon completion of project development it remains the sole responsibility of the customer office to coordinate activities between: 1. The Data Access Center, 2. OC users, 3. Task requests levied upon OJCS.

V. PROJECT SCHEDULE

The anticipated mile stones for this project are as follows:

- 1. Commence COMCON Project 1 May 1974
- 2. Review of COMCON 15 May 1974 PERSIGN Interface
- 3. Review of Specifications 31 May 1974
- 4. System Review 14 June 1974 5. On-line Testing 17 June 1974

- 6. Acceptance Testing 15 July 1974
- 7. User Training 45 days after completion
 - of PERSIGN/STAFFING Project
- 8. Production Status 60 days after completion of PERSIGN/STAFFING project

VI. MANPOWER REQUIREMENT

- 1. One GIM-II computer programmer/analyst will be required for 50% of his time for the project, starting 1 May 1974 15 July 1974 for design, development, testing documentation and implementation of the COMCON data lists.
- 2. One GIM-II computer programmer/analyst will be needed for 10% of his time to coordinate the OC interface with PERSIGN/STAFFING immediately prior to this project becoming operational, from 16 July 1974, onwards.
- 3. OC must provide the necessary clerical and administrative personnel, for approximately 50% of their time during the duration of the project. The support should consist of at most two(2) clerk/typists and one office ADP coordinator.

VII. CONVERSION

The normal OJCS time sharing facilities on CP/CMS will be used for the preparation and maintenance of data not provided by PERSIGN/STAFFING under Phase I.

VIII.DEVELOPMENTAL AND OPERATIONAL COSTS

The following is a breakdown of development and operational cost factors:

A. Development Breakdown

1. Manpower

a.	number of data lists:	3
	m/hrs. per data list:	40
	total m/hrs. (d/l):	100

- b. number of procedures: 10 m/hrs. per procedure: 40 total m/hrs. (proc): 400
- c. number of reports: 15 m/hrs. per report: 20 total m/hrs. 300

đ.	Data Conversion:	80
e.	manpower overhead (30%) subtotal m/hrs (ad.): total man hours: total man weeks: total personnel costs:	1144 28.6
2. Comp	uter Costs	
a.	<pre>number of data lists: cost: \$215 X 3 =</pre>	3 \$645
, b.	<pre>number of procedures: costs: \$150 X 10 =</pre>	10 \$1,500
c.	CP/CMS - GIM-II conversion number of files cost: 2000 X 3 X .2 X .88	3
	Total CPU costs:	\$3,165
	Total development costs:	\$22,613
B. Operation	al Costs	
1. Manp	ower - 2500 X .25 X 2 =	\$1,250 ***
2. Comp	uter - 800 X .85	\$ 680 *
Monthly	operational costs:	\$1,930
* Estimated 800 t	rans/mo X \$.85 per CPU seco	ond.
** Approximately on IBM 360/195.	0.2 sec per GIM-II transact	cion processing
	factor of \$2,500 per man/rand 2 personnel interacting	
	Project I AD/OJ	
CONCUR:		
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ATTACHMENT 1

The following Data Elements have been determined as supplemental requirements for the OC Personnel System not provided by PERSIGN/STAFFING in Phase 1.

DATA ATTRIBUTE	DESCRIPTION
OCDEPNO	Number of legal dependents that the individual claims for final tax purposes.
OCDEPNAME	Multi-values field indicating the last, first and middle initial of a legal Dependent.
OCDEPDOB	Associated dependent date of birth.
OCDEPSEXR	Associated Sex/Race code of a legal dependent. Same codes as used in the PERSIGN Master Fiel data attribute, PERSEX RACE.
OCDEPRELAT	Associated clear text description of the dependent's relationship. e.g. wife, husband, father, mother, etc.
OCDEPNAT	Associated dependent nationality. e.g. U.S. Canadian, Austrian, etc.
OCEDLEVEL	Highest Educational level attained by the individual - grades: 1-12; H.S. grad; Col Grad.
OCETA	Estmated time of arrival. The esti- mated date (YYMMDD) where an individ- ual is expected to report to his new Duty Station on a reassignment act- ion.
OCETD	Estimated time of departure. The estimated date when an individual is expected to depart from his old duty station on a reassignment action (YYMMDD).
	Indicator showing whether or not an individual attended the

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stallation. Codes: Y, N.

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DATA ATTRIBUTE	DESCRIPTION
OCDAB	Drug Abuse briefing indicator. Whether or not an individual attended the Drug Abuse orientation Prior to an overseas reassignment or a TDY to an overseas installation.
OCPERSEXT	Numeric value representing the number of personnel extensions authorized for the individual in connection with a reassignment action to another installation.
OCASGCON	Assignment considerations. Clear text description of factors which an individual feels should be taken into consideration in determining his next reassignment.
OCSPECTNG	Special Training required. Clear text description of the required training an individual must possess prior to reassignment or TDY to another installation. Usually pertains to an overseas reassignment.
OCPPNO	Passport Number. Used as verification of an individuals forthcoming TDY to another (overseas) installation.
OCPPEXPDT	Passport expiration date. Self explanatory.
OCSHEXPDT	Shots Expiration Date. The date of expiration of the last battery of shots which the individual was administered prior to a reassignment or to TDY to an installation requiring such shots.
OCPHYSRDT	Physical Reevaluation date. The date when an individual is scheduled for his next complete physical.
OCPHYSLDT	Date of last physical. When the last complete physical was taken by the individual.
OCIMBCD	Immobility Category Code. An indicator as to the category of Immobility

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DATA ATTRIBUTE	DESCRIPTION
OCIMBCD (cont)	encumbered on the employee. Used for determing the next station of assignment. Codes: 1 - Temporary 2 - Indefinite 3 - Permanent
OCIMBRDT	Immobility reevaluation date. The date when the Immobility, if it exists, will be reviewed by the appropriate Administrative Unit.
OCIMBINDC	Immobility indicator. A code designating the source of the Immobility. Codes: 1 - Employee 2 - Wife 3 - Child 4 - DEP/Mother/Father
OCIMBTYPE	Type of Immobility. Codes: 1 - Medical 2 - Administrative 3 - Security
OCROKB	Risk of Capture briefing. Indicator showing whether or not an individual attended a Risk of Capture briefing while stationed at Headquarters Prior to a reassignment or TDY action.
OCROKA	Risk of Capture Area. Indicator show- ing whether or not a specific station is classified as being in a risk of Capture area.
OCQUART	Housing Descriptor. Whether or not the quarters at a particular installation are furnished (f) or unfurnished (UF).
OCEDAVL	Available Education. The education available at a particular installation. Codes: (U.S. or Foreign) 1/2 - Highest Grade CL - College N - None

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DATA ATTRIBUTE	DESCRIPTION
OCMEDFAC	Medical Facilities available at an installation: Codes: A - Adequate P - Poor L - Limited
OCFAMLMT	Family Limitations as to the size of the individual's family at a post. Codes: S - single MWF - Married W/Family MNC - Married no children
OCAUTOR	Automobile restrictions at a post. Codes: R - Restricted NR - No Restrictions NA - Not Authorized
OCTOUR	Length of Tour at an installation. Format is numeric for years; decimal point indicates portions of years. e.g. if tour is 18 months, then Octour = 1.5.
OCTNGFAC	Training Facility. The name of the training installation at which specific training was taken, field is multivalued.
OCCRSNME	Course Title (s). The name of the courses taken at the training facility. Field may be multi-valued.
OCCRSTDT	Course start date. The date the course started.
OCCRTRDT	Course termination date. The date the course ended.
OCTYTNG	Type training code. I - Internal E - External
OCTNG-HRS	The number of hours of classroon time the individual spent during the course.

DATA ATTRIBUTE	DESCRIPTION
ORGTITLE	Organizational Title. The clear text description of organizational title.
ORGATITL	Abbreviated Organizational Title.
ORGCSD	Organization Career Service Designat- ion. A code assigned to each level 1 and 2 organization only, which designates the Career Service to which the organization is associated.
ORGTOTLPOS	Organization Total Position Counter; all positions within an office, i.e. a count of the planned incumbency for all ceiling positions within an office organization record.
ORGPOSCNT	Organization Position Counter. A Count of the positions within an organization.
ORGHQSTXT	Organization Headquarters Test for a level 3 thru 8 organization record. Codes: STATINTL

DATA ATTRIBUTE	DESCRIPTION	
POSLOCATTXT	Position Location Text. The text indicating the geographical location of a position; indicates either Country/City in which STATING the position is located.	NTL
POSSEQNO	Position Sequence Number. A number assigned to each position that is used for the sequencing of positions within an organizational unit.	
POSSSN	Position Social Security Number. The Social Security number or other identifying number for each employee assigned to the position maximum number permitted is 50.	
POSSCHGRSKI	Schedule/Grade Sort Key #1. Two alphabetics to identify that OP stan-dard sort key when reporting schedules where GS grades appear but others do not.	
POSGRPRT	Schedule/Grade Standard Print. The OP standard schedule and/or grade to be printed on reports when using schedule/grade sort key #1.	
POSHQSTXT	Position Headquarters Text. The Headquarters Text for the Headquarters code in the position record. Codes: STATIN	NTL
ORGCODE	Organization Code. The item ID of the STAFFING/ORG Data List, identify-ing a component within the Hierarchial structure of the Agency.	
ORGLEVEL	Organization Level indicator, showing which level of Hierarchy this organization record is representing; codes: 1 - Directorate 2 - Office 3 - HQS and Intermediate 4 - Division 5 - Branch 6 - Section 7 - Unit 8 - Sub-Unit	

The following Data Elements from the STAFFING Organization and Position Data Lists will be used by OC for information:

DATA ATTRIBUTE	DESCRIPTION
POSNR	Position Number, used for assigning personnel to the position and identification of the position.
POSORG	Position organization code. The organization code assigned to a position, used to identify a position with a particular organization.
POSPLINC	Planned incumbency. The number of employees that are planned to be assigned to the associated position.
POSSCHED	The pay schedule of the position.
POSGRADE	Position Grade. A code denoting the Grade/Level/Rank of the position within a pay schedule.
POSOCCUP	Occupational series code indicating the group and series that a particular occupation is associated with.
POSTITLE	Position Title. Clear text of the associated occupational series code.
POSUFFIX	An abbreviated SUFFIX to the position title indication a supervisory abbreviation or a geographical location.
POSCSD	Position Career Service Designation. A code assigned to each position that designates what Career Service the position is associated with.
POSLOCAT	Position Location code. A code designating the geographical location of a position. Foreign Location: Country/City;
POSAREA	Position Geographical Area Code. A code designating the geographical

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area that a position is located in.

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DATA ATTRIBUTE	DESCRIPTION
PERCURLOC	Station code specifying station of latest location for the individual.
PERCURLOCTXT	Clear text description of an individuals current duty station.
PEROSDATE	Reflects the enroute, arrival and departure to PCS assignment overseas.
PEROSPCSLOC	Station code of the PCS arrival to an overseas installation.
PEROSPCSLTXT	Clear text description of an arrival's PCS location.
PERORGDTIN	Date an individual is assigned to a position within an organization.

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DATA ATTRIBUTE	DESCRIPTION
PERMATJUNITC	specific cover units are attached. Codes: standard within MCS.
PERMAJUNTXT	Clear text description of the cover unit designated by cover type code (PERMAJUNITC).
PERSCH	Schedule; an acronym for the system Governing the establishment of compensation.
PERGR	Grade; designation of an employee's actual grade.
PERSTEP	Step in grade.
PERASALARY	The annual salary of a given schedule based on the pay basis field (PERPAYB).
PERDOG	Date of grade. The date of individual first obtained his current grade.
PERCSEOD	Current service entry-on-duty date; date of last true appointment.
PERLCD	Longevity computation date, represent- ing the date an individual would have begun his Agency employment if all appointed, contractual or officially detailed service were continuous. Date cannot pre-date: Sept. 18, 1947.
PERMS	Marital status of an individual. Code designation.
PERRTMT	Retirement system code indicating the retirement plan the individual is entitled to. For T/O Employees.
PERRTMTTXT	Clear text pescription of the retire- ment system code.
PERCURLOCX	Code designating the type of current location of the station code (PERCURLOC) appearing in current location. Associated codes.

DATA ATTRIBUTE DESCRIPTION PEROVERLAP The ID (Social Security Number) of the new employee who replaces an employee whose record contains the overlap, stored in the record of the old employee (i.e. the one to be replaced). PERHO Official General Geographic location of the personnel in organizational units. Codes are: STATINTI PERHOTXT Headquarters text - the associated clear text for the Headquarters code. PERSTAN Station Code referring to a specific duty post to which the individual is assigned. Will also be the item ID of the OC Station registry file. PERSTANTXT Country/City text; the associated clear text for the station code in PERSIGN (PERSTAN) PERORGCODE Organizational component used as a link to the ORG data list in STAFFING. PERSD Career Service designation, used to identify staff personnel with the Career Services to which they are assigned. PERDEVC Development Complement code. An acronym representing the reason an employee is in a non-work status or is not performing a staffing assignment at the grade of the position. PERDEVDI Data of Assignment into DEVCOMP status, or a date from which an individual has been in continuous DEVCOMP status. PERDEVNTE Expiration date for the assignment of an employee into a DEVCOMP status. STAT PERMATJUNITC

ATTACHMENT 1

The following data elements from the PERSIGN data lists will be used by OC for retrieval purposes:

DATA ATTRIBUTE	DESCRIPTION
PERSSN	Social Security number; item ID of the PERSIGN data lists and item ID of OC data lists.
PERNAME	True name of an individual - last, first middle initial.
PERDOB	An individual's date of birth.
PERSEXRACE	Sex/Race indicator - combined as a two character identifier. First character indicates Sex (M or F); 2nd shows racial category code.
PERSERIAL	Embedded employee number.
PERSFN	Security file number - assigned by Office of Security.
PERTOA	Multi-valued field indicating the latest personnel actions on that individual; maximum of 5.
PERDOA	Latest date of personnel action authorized by OP for the individual.
PERPDATE	Date the latest personnel action was posted to the data base; action process date.
PEROCCE .	Occupational series code; the stan- dard designation for an employee's occupational title within an occupational group.
PEROCCETXT	Occupational text description for an employee's occupational series code (PEROCCE).
PERPOSNO	Number assigned to a position on the position control register (PCR) or

created for DEVCOMP or PENDR.

ATTACHMENT 2

The following reports can be produced entirely as stated or in part in Phase I:

1. Personnel Title Alpha Listing

Elements;

Social Security Number, Name (Last, First,

Middle)

Date of birth
Sex/Race code
Agency EOD date

Employee serial number

✓ Marital Status
Schedule/Grade/Step

Date of Grade
Retirement system

Station Text

Occupational Title

Career Service designation

Cover type

2. OC Manning Table

Elements:

Social Security Number

Cover Type
Position number
Station Text

Occupational Title

Grade Name

Position Grade

Career Service Designation

Overseas date

Estimated time of departure New Station of Assignment

Replacement name Grade of replacement

Estimated time of arrival of replacement

Organization title

3. OC Strength and Ceiling Report

Elements:

Career Service Designation

Position Number Planned incumbency Headquarters text

4. CEL Responsibility List

Elements:

Area Text

Social Security Number Career Service Designation

Sched/Grade

Name

5. Position Vacancies

Elements:

Area/Location Text Position Number Position SD Position Title Position Grade Incumbent Name

Social Security Number

Incumbent SD

Estimated Time of Departure

Replacement Name
Replacement Sch/Grade
Estimated Time of Arrival
Later Transfer information

Overlap SSN

6. Personnel Assigned DEVCOMP

Elements:

Social Security Number

Name

Sched/Grade

Area/Station Text

Estimated Time of Arrival

7. Grade/Panel Mis-Slots

Elements:

Social Security Number

Sched/Grade SD (Panel)

Area/Station Text Position Number Position Grade Position SD Date of Grade

8. Personnel Rotations

Elements:

Social Security Number

Incumbent Name

SD

Estimated Time of Departure

Area/Station Text

Type Cover Position Number

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9. Immobiles:

Elements:

Social Security Number

Name

SD (Panel)

Category of Immobility

Reevaluation Date Immobility Code Immobility Type Organization Code Position Number

10. True/Pseudo Cross-Reference Listing

Elements:

Social Security Number

True Name Pseudo Name SD (Panel)

Organization Text

11. Lateral Transfer Information

Elements:

Station Code & Text

Associated Station Information Data

12. World-Wide TDY Standby

Elements:

Social Security Number

Standby Indicator

Name

Date of Birth Sched/Grade

Occupational Title

SD

13. OC Position Responsibility

Elements:

Position Number Station Code Station Text Area Text

Position Ceiling

Position SD

Position SCH/Grade

14. Career Panel Position Responsibility List

Elements:

Position Number Planned Incumbency Position Title

Position Sched/Grade Position Organization

Code

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14. Career Panel Position Responsibility List (cont)

Elements:

Position Location Position Area Incumbent SSN Incumbent Name

Incumbent Sched/Grade

Incumbent SD
Estimated Time of Departure